Please amend page 24, line 1 as follows:

Claims What is claimed is:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1) (Currently amended) A method of assessing cardiac neurotransmission in a human subject comprising:
 - i) vi) administration to said subject of an amount suitable for in vivo imaging of an adrenergic imaging agent;
 - ii) vii) in vivo imaging of said subject using said adrenergic imaging agent;
 - iii) viii) administration of an adrenergic interfering agent to said subject;
 - iv) ix) repeating steps (i) and (ii); and,
 - <u>v)</u> x) comparing the images obtained in steps (ii) and (iv).
- 2) (Original) The method of claim 1 wherein said cardiac neurotransmission is assessed to investigate the status of a cardioneuropathy in said human subject.
- 3) (Original) The method of claim 2 wherein said cardioneuropathy is a primary cardioneuropathy related to:
 - (i) a dysautonomia;
 - (ii) heart transplantation; or,
 - (iii) idiopathic ventricular tachycardia and fibrillation.

4)	(Original) The method of claim 2 wherein said cardioneuropathy is a second cardioneuropathy related to:		
	(i)	dilated cardiomyopathy;	
	(ii)	coronary artery disease;	
	(iii)	hypertrophic cardiomyopathy;	
	(iv)	arrhythmogenic right ventricular cardiomyopathy;	
	(v)	diabetes mellitus;	
	(vi)	hypertension; or,	
	(vii)	drug-induced cadriotoxicity.	
5)	ne method of claim 1 wherein said adrenergic interfering agent is		
	(i)	tricyclic antidepressants;	
	(ii)	beta blockers;	
	(iii)	calcium channel blockers;	
	(iv)	sympathomimetic agents; and,	
	(v)	cocaine.	
6)	(Original) The method of claim 5 wherein said adrenergic interfering agent is a tricyclic antidepressant selected from desipramine, amitryptaline and imipramine.		
7)	(Original) The method of claim 6 wherein said adrenergic interfering agent is amitryptaline.		

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- 8) (Original) The method of claim 1 wherein said adrenergic imaging agent is selected from labelled forms of mIBG, mFBG, hydroxyephedrine, ephedrine, fluorodopamine, CGP, carazolol and MQNB.
- 9) (Original) The method of claim 8 wherein said adrenergic imaging agent is radioiodinated mIBG.
- 10) (Original) The method of claim 9 wherein said adrenergic imaging agent is ¹²³I mIBG.
- 11) (Original) The method of claim 1 wherein said *in vivo* imaging is external imaging carried out by SPECT or PET.
- 12) (Original) The method of claim 11 wherein said external imaging is carried out by SPECT.
- 13) (Original) A method of assessing cardiac neurotransmission in a human subject comprising:
 - i) administration of a non-therapeutic dose of an adrenergic interfering agent to said subject;
 - ii) administration to said subject of an amount suitable for *in vivo* imaging of an adrenergic imaging agent; and,
 - iii) in vivo imaging of said subject.
- 14) (Original) The method of claim 13 wherein said cardiac neurotransmission is assessed to investigate the status of a cardioneuropathy in said human subject.
- 15) (Original) The method of claim 14 wherein said cardioneuropathy is a primary cardioneuropathy related to:
 - (i) a dysautonomia;
 - (ii) heart transplantation; or,

	(iii)	idiopathic ventricular tachycardia and fibrillation.		
16) (Original) The method of claim 14 wherein said cardioneuropathy is a secondar cardioneuropathy related to:				
	(i)	dilated cardiomyopathy;		
	(ii)	coronary artery disease;		
	(iii)	hypertrophic cardiomyopathy;		
	(iv)	arrhythmogenic right ventricular cardiomyopathy;		
	(v)	diabetes mellitus;		
	(vi)	hypertension; or,		
	(vii)	drug-induced cadriotoxicity.		
17) (Original) The method of claim 13 wherein said adrenergic interfering agent is				
selected from:				
	(i)	tricyclic antidepressants;		
	(ii)	beta blockers;		
	(iii)	calcium channel blockers;		
	(iv)	sympathomimetic agents; and,		
	(v)	cocaine.		
18) (Orig	inal) Th	ne method if claim 17 wherein said adrenergic interfering agent is a		
tricyclic antidepressant selected from desipramine, amitryptaline and				
imipramine.				
19) (Original) The method of claim 18 wherein said adrenergic interfering agent is				

amitryptaline and the non-therapeutic dose is between 10 and 50mg.

- 20) (Original) The method of claim 13 wherein said adrenergic imaging agent is selected from labelled forms of mIBG, mFBG, hydroxyephedrine, ephedrine, fluorodopamine, CGP, carazolol and MQNB.
- 21) (Original) The method of claim 20 wherein said adrenergic imaging agent is radioiodinated mIBG.
- 22) (Original) The method of claim 21 wherein said adrenergic imaging agent is ¹²³I mIBG.
- 23) (Original) The method of claim 13 wherein said *in vivo* imaging is external imaging carried out by SPECT or PET.
- 24) (Original) The method of claim 23 wherein said external imaging is carried out by SPECT.
- 25) 37) Cancel
- 38) (Original) A method of imaging the sympathetic innervation of a tissue of a human subject comprising:
 - (i) in vivo imaging with an adrenergic imaging agent;
 - (ii) administration of an adrenergic interfering agent;
 - (iii) repeating step (i); and,
 - (iv) comparing the images obtained in steps (i) and (iii).
- 39) (Original) The method of claim 38 wherein said tissue is the myocardium.
- 40) (Original) The method of claim 38 wherein said sympathetic innervation is imaged to investigate the status of a cardioneuropathy in said human subject.
- 41) (Original) The method of claim 40 wherein said cardioneuropathy is a primary cardioneuropathy related to:

	(ii)	heart transplantation; or,		
	(iii)	idiopathic ventricular tachycardia and fibrillation.		
42) (Original) The method of claim 40 wherein said cardioneuropathy is a secondary				
cardio	oneurop	athy related to:		
	(i)	dilated cardiomyopathy;		
	(ii)	coronary artery disease;		
	(iii)	hypertrophic cardiomyopathy;		
	(iv)	arrhythmogenic right ventricular cardiomyopathy;		
	(v)	diabetes mellitus;		
	(vi)	hypertension; or,		
	(vii)	drug-induced cadriotoxicity.		
43) (Orig	inal) Th	e method of claim 38 wherein said adrenergic interfering agent is		
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select	ed from			
	(i)	tricyclic antidepressants;		
	(ii)	beta blockers;		
	(iii)	calcium channel blockers;		
	(iv)	sympathomimetic agents; and,		
	(v)	cocaine.		

a dysautonomia;

(i)

- 44) (Original) The method of claim 43 wherein said adrenergic interfering agent is a tricyclic antidepressant selected from desipramine, amitryptaline and imipramine.
- 45) (Original) The method of claim 44 wherein said adrenergic interfering agent is amitryptaline.
- 46) (Original) The method of claim 45 wherein said adrenergic imaging agent is selected from labelled forms of mIBG, mFBG, hydroxyephedrine, ephedrine, fluorodopamine, CGP, carazolol and MQNB.
- 47) (Original) The method of claim 38 wherein said adrenergic imaging agent is radioiodinated mIBG.
- 48) (Original) The method of claim 47 wherein said adrenergic imaging agent is ¹²³I mIBG.
- 49) (Original) The method of claim 38 wherein said *in vivo* imaging is external imaging carried out by SPECT or PET.
- 50) (Original) The method of claim 49 wherein said external imaging is carried out by SPECT.
- 51) 72) Cancel.
- 73) (Original) A kit for use in the method of claim 1 which comprises:
 - (i) an adrenergic interfering agent; and,
 - (ii) an adrenergic imaging agent in a form suitable for carrying out said *in vivo* imaging steps, or a precursor thereof.
- 74.) (Original)The kit of claim 73 wherein said adrenergic interfering agent is selected from:
 - (i) tricyclic antidepressants;

- (ii) beta blockers;
- (iii) calcium channel blockers;
- (iv) sympathomimetic agents; and,
- (v) cocaine.
- 75) (Original)The kit of claim 74 wherein said adrenergic interfering agent is a tricyclic antidepressant selected from desipramine, amitryptaline and imipramine.
- 76) (Original)The kit of claim 75 wherein said adrenergic interfering agent is amitryptaline.
- 77) (Original)The kit of claim 73 wherein said adrenergic imaging agent is selected from labelled forms of mIBG, mFBG, hydroxyephedrine, ephedrine, fluorodopamine, CGP, carazolol and MQNB.
- 78) (Original)The kit of claim 77 wherein said adrenergic imaging agent is radioiodinated mIBG.
- 79) (Original)The kit of claim 78 wherein said adrenergic imaging agent is 123 I mIBG.